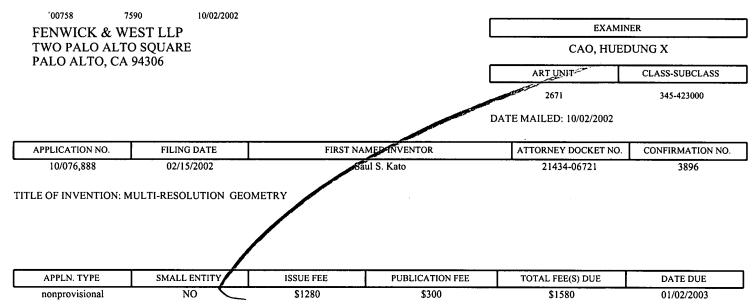




UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

NOTICE OF ALLOWANCE AND FEE(S) DUE



THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231 Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

00758

7590

10/02/2002

FENWICK & WEST LLP TWO PALO ALTO SQUARE PALO ALTO, CA 94306 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

transmitted to the OSI TO, on the date indicated below.	
	(Depositor's name)
	(Signature)
	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,888	02/15/2002	Saul S. Kato	21434-06721	3896

TITLE OF INVENTION: MULTI-RESOLUTION GEOMETRY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300	\$1580	01/02/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
CAO, HUE	DUNG X	2671	345-423000		
1. Change of corresponder CFR 1.363).	nce address or indication of	"Fee Address" (37	2. For printing on the patent fr the names of up to 3 registered	patent attorneys	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		or agents OR, alternatively, (2) the name of a single firm (having as a member a registered			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			attorney or agent) and the na registered patent attorneys or ag is listed, no name will be printed	gents. If no name	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category	or categories (will not be printed on the patent)	individual	corporation or other private group enti	ity 🚨 government	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):				
☐ Issue Fee	☐ A check in the amount	☐ A check in the amount of the fee(s) is enclosed.			
☐ Publication Fee	☐ Payment by credit care	☐ Payment by credit card. Form PTO-2038 is attached.			
☐ Advance Order - # of Copies	The Commissioner is Deposit Account Numbe	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).			
Commissioner for Patents is requested to apply	the Issue Fee and Publication Fee (if any) or to re	apply any previo	ously paid issue fee to the application ident	ified above.	
(Authorized Signature) NOTE: The Issue Fee and Publication Fee ((Date) (If required) will not be accepted from anyone				
This collection of information is required by obtain or retain a benefit by the public whic application. Confidentiality is governed by 35 estimated to take 12 minutes to complete, incompleted application form to the USPTO.	y or agent; or the assignee or other party in States Patent and Trademark Office. 37 CFR 1.311. The information is required to h is to file (and by the USPTO to process) an U.S.C. 122 and 37 CFR 1.14. This collection is lluding gathering, preparing, and submitting the Time will vary depending upon the individual				
suggestions for reducing this burden, should Patent and Trademark Office, U.S. Departme	ne you require to complete this form and/or be sent to the Chief Information Officer, U.S. nt of Commerce, Washington, D.C. 20231. DO ORMS TO THIS ADDRESS. SEND TO: 0231.				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Weehington, D.C. 20291

APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,888		02/15/2002	Saul S. Kato	21434-06721 3896	
00758 7590 10/02/2002		90 10/02/2002		EXAMINER	
FENWICK & WEST LLP TWO PALO ALTO SQUARE		CAO, HUEDUNG X			
PALO ALTO,				ART UNIT	PAPER NUMBER
				2671	
				DATE MAILED: 10/02/2002	

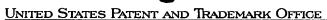
Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)







APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,888	0)2/15/2002	Saul S. Kato	21434-06721 3896	
00758	7590	10/02/2002		EXAMIN	ER
FENWICK &				CAO, HUED	UNG X
TWO PALO AI PALO ALTO, O		AKE		ART UNIT	PAPER NUMBER
UNITED STAT	ES			2671	
				DATE MAILED: 10/02/2002	

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
Notice of Allowability	10/076,888	KATO, SAUL S.			
	Examiner	Art Unit			
	Huedung X Cao	2671			
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	(OR REMAINS) CLOSED in this apport of the communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS			
1. This communication is responsive to <u>09/18/02</u> .					
 2. The allowed claim(s) is/are <u>1-23</u>. 3. The drawings filed on <u>18 September 2002</u> are accepted by 	the Everiner				
 4. Acknowledgment is made of a claim for foreign priority und 					
a) All b) Some* c) None of the:	cr 55 0.5.5. § 115(a)-(a) or (r).				
 Certified copies of the priority documents have 	been received.				
2. Certified copies of the priority documents have					
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	uments have been received in this	national stage application from the			
* Certified copies not received:	d 05 H 0 0 0 440() ((
5. Acknowledgment is made of a claim for domestic priority un (a) The translation of the foreign language provisional ap		onal application).			
6. Acknowledgment is made of a claim for domestic priority un	•				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of to the submount of the sub	his application. THIS THREE-MON itted. Note the attached EXAMINER	I'S AMENDMENT or NOTICE OF			
INFORMAL PATENT APPLICATION (PTO-152) which gives reason	on(s) why the oath or declaration is	deficient.			
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No 					
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.					
(c) including changes required by the attached Examiner's	s Amendment / Comment or in the (Office action of Paper No			
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper	84(c)) should be written on the drawir with a transmittal letter addressed to	igs in the top margin (not the back) the Official Draftsperson.			
9. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR THE	sit of BIOLOGICAL MATERIAL n HE DEPOSIT OF BIOLOGICAL MA	nust be submitted. Note the TERIAL.			
Attachment(s)					
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No	4⊠ Interview Summa 6□ Examiner's Ame	al Patent Application (PTO-152) ary (PTO-413), Paper No ndment/Comment ement of Reasons for Allowance			

Application/Control Number: 10/076,888

Art Unit: 2671

Examiner's Statement of Reasons for Allowance

1. Claims 1-23 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art made of record fails to anticipate or make obvious the claimed invention. Specifically, the prior art fails to teach, in combination with the remaining elements as recited in claim 1:

The arrangement of steps/means for retrieving, determining, reordering, creating, rendering in order to form a method for creating a three-dimensional visual representation of an object multiple resolutions comprising retrieving coordinates of vertices for object; determining a collapse order for the vertices; reordering the vertices identified in the vertex list responsive to the determined collapse order; creating a vertex collapse vertex list responsive to the collapse order where the vertex collapse list specifies, for a target vertex, a neighbor vertex to collapse to; using the vertex collapse list and a level of detail to identify at least one display vertex of the object; and rendering the display vertex to produce a three-dimensional visual representation of the object.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/076,888

Art Unit: 2671

Inquires

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Huedung Cao** whose telephone number is (703) 308-5024.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached at (703) 305-9798.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

MARK ZMMERMAN

Huedung Cao Patent Examiner MARK ZWIMERWAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600